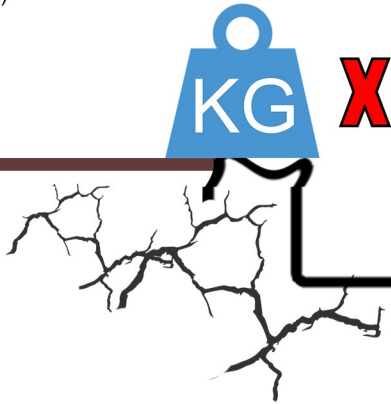
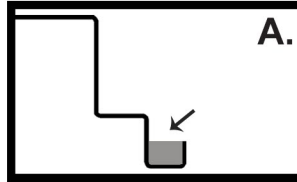


GCT CHANNEL EDGE PROFILE Page 1 of 1

The channel edges are two platforms at the top of a drainage channel, one sits flush with the surrounding floor and directly borders the grating, the other sits directly underneath the grating. Both of these edges are exposed to the same physical loads. It is imperative to pair the correct edge with the grating type (e.g., foot traffic vs. heavy vehicular traffic) to absorb structural stress and preventing floor cracks and channel deformation.

A. GCT Channels are supplied with a plain folded edge as standard. The underside of the plain folded edge must be filled with concrete or epoxy/ resin on site, to provide optimum edge strength and prevent deformation. Be sure to inform the flooring contractor whether foot traffic, pallet jacks, or heavy forklifts will be rolling over the channel. The edge must be able to withstand the same loads as the grating, i.e. R50 (5000KG)



Plain Folded Edge
Channel Design
without concrete or
epoxy/ resin infill

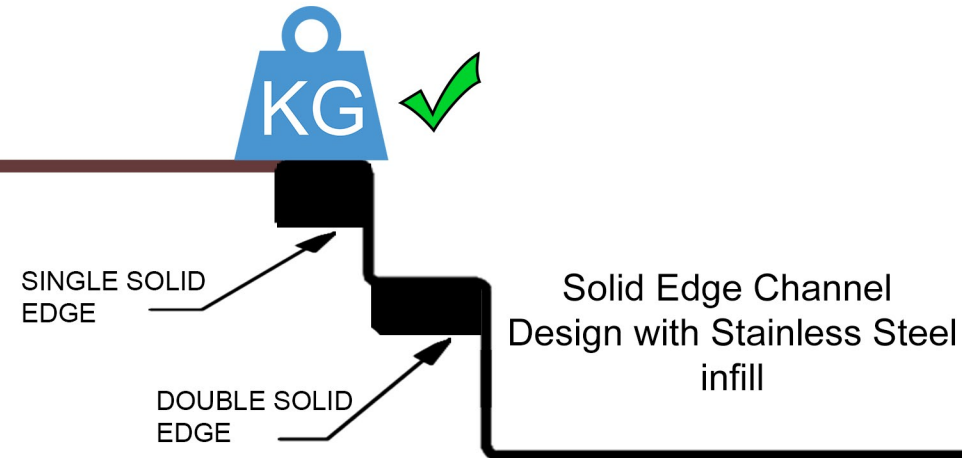
1. An example of a channel with a rubber edge infill underneath, in this scenario the grating was able to handle the load but the channel edge was not.



2. An example of a channel with a plain folded edge and no edge infill underneath, in this scenario neither the channel nor the grating was able to handle the load.



Alternatively, GCT Channels can be manufactured with either a single or double solid edge. A solid stainless steel bar is welded underneath the load bearing channel edge/s. A single/ double solid edge provides optimal strength, preventing channel deformation and floor damage under heavy loads.



FAQ:

1. What type of edge will I need for my application?

A standard plain folded edge with concrete or epoxy/ resin edge infill, is typically suitable for commercial, dense pedestrian, or light industrial areas with the use of light-duty equipment but specialised flooring contractors may have two-part industrial adhesives, grouts, or mortars engineered to provide adequate compressive and tensile strength which can be applied under the channel edge to accommodate for all load classes (consult with your flooring contractor/ engineer).

A single solid edge is typically suitable for industrial areas with the use of medium-duty equipment with solid wheels (pallet jacks, etc), up to load class M1250 (12500KG). No filling of the edge with concrete or epoxy/ resin on site is required.

A double solid edge is typically suitable for industrial areas with the use of heavy machinery with solid wheels and pneumatic tyres (forklifts, etc), up to load class N250 (25000KG). See [GCT Load Classes.pdf](#)

2. Must the entire channel still be cast in concrete even with a single or double solid edge?

Yes, GCT stainless steel channels (such as Slot Channels and Box Channels) must be cast in a concrete surround for strength. The thin-gauge stainless steel profile acts as a drainage vessel and relies entirely on the surrounding concrete (usually C35/45 - consult with your dedicated engineer) to handle heavy loads. A single or double solid edge merely adds reinforcement to the thin-gauge stainless steel load bearing surfaces, it aids in transferring the load away from the channel and into the concrete. See [GCT Channel Installation.pdf](#)